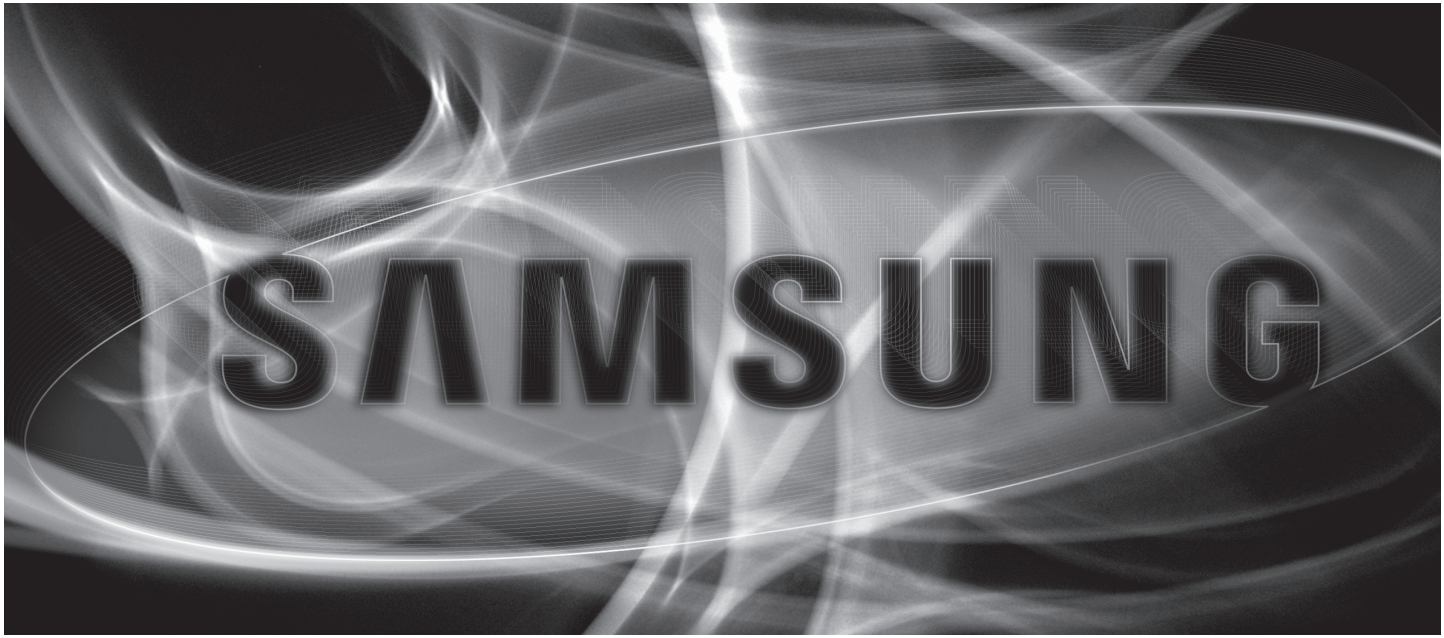
SAMSUNG TECHWIN

EzVIEW™ Baby Monitor

User Manual

SEW-3022



If you have additional questions or need further assistance, contact Samsung support at (877) 349-3149.
To extend your one year warranty by three months, be sure to go to www.samsungsv.com and register your product.

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EzVIEW™ Baby Monitor
User Manual

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SPECIFY SERVICE INSTRUCTIONS AND WARRANTY TERMS

This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC NOTE:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT.
SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

WARNING

- STRANGULATION HAZARD - Keep cord out of child's reach. NEVER place camera or cords within 3 feet of crib or playpen. Use enclosed wire clips to help secure cord away from child's reach. Never use extension cords with AC Adapters. Only use the AC Adaptors provided.
- Some adult assembly or installation required.
- This product contains small parts that may cause choking. Keep small parts away from children.
- This product is NOT intended to replace proper supervision of children.
  You MUST check your child's activity regularly, as this product will not alert parents to silent activities of a child.
- Before using this product, read and follow all instructions contained in this booklet, and read and follow all instructions and warnings on the product.
- To prevent entanglement with adapter cords, NEVER PLACE THE CORD IN OR NEAR A CRIB OR PLAYPEN. DO NOT place the product or its AC adapter cords within reach of children.
- ALWAYS KEEP THE TRANSMITTER, RECEIVER AND AC ADAPTERS OUT OF REACH OF CHILDREN.
- NEVER use the transmitter or receiver near water, including near a bathtub, sink, laundry tub, wet basement, etc.
- This product is intended for indoor use only.
- This product is not intended for use as a medical monitor and its use should not replace adult supervision.
- Check reception regularly. Test monitor before use and after changing camera location.
- Always unplug AC adapters from wall outlets and power sources during periods of non-use.

The wireless signal transfer range may be shortened if there exists an obstacle such as a concrete wall between.

- To prevent overheating, keep the product and AC power adapters away from any direct sunlight and heat sources such as radiators, heat registers, cooking devices (e.g., stoves and ovens) and other appliances that produce heat (e.g., amplifiers, televisions and stereos).
- Ensure that the product is well ventilated during use. Avoid contact with pillows and furniture that may block ventilation.
- Use only the AC adapters provided with the product, as other adapters may damage the product. Plug the adapters only into standard household current (120 volts AC). Place the AC adapters avoiding pinch points otherwise you can damage the adapters.
- When an AC adapter is plugged into a power source, DO NOT touch the exposed end of the AC adapter's cord.
- Do not use extension cords with the AC power adapters to avoid entanglement.
- This product should only be serviced by qualified and authorized Samsung service centers.
- Images and sounds are transmitted by the product over public airwaves and transmissions may be picked up by other units.
- Caution if you use the system to watch a young child, do not place the camera where the child can reach.
- When using the system with only battery power and the charge is low, then the picture and or sound may affected.
- If this occurs then please connect the AC power adapter and/or replace with new batteries.
- If you are using the optional rechargeable battery then plug in the AC power adapter to recharge.

BATTERY WARNING

When using the product in portable mode, check batteries regularly.

DO NOT use the monitor in portable mode when batteries are low.

- DISPOSE OF OR RECYCLE BATTERIES PROPERLY IN ACCORDANCE WITH APPLICABLE LAWS, which may vary by location.
- Insert batteries with the correct polarity.
- Do not mix new and used batteries.
- Remove exhausted batteries from the product.
- Keep all batteries away from children.
- THERE IS A RISK OF EXPLOSION IF INCORRECT BATTERIES ARE USED.
- Do not disassemble or modify the battery pack.
- Do not use batteries if there is any evidence of leakage or deformity.

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GETTING STARTED

Features

- Samsung's digital wireless technology provides excellent image quality and clarity.
- Virtually eliminates interference using a secure and private signal
- Up to 350ft (about 100m) wireless open space transmission range.
  The actual range may vary depending on the use environment.
- Listen in with exceptional sound clarity
- Safety warning feature on monitor notifies you when the camera is out of range of the transmitter.
- System is expandable up to 4 cameras (additional cameras sold separately).
- Two-way audio communication.
- Camera temperature display on monitor.

Camera Features

- QVGA resolution camera.
- Night vision allows for low-light viewing up to 3.0m/10ft .
  Performance varies depending on environmental conditions.
- Built-in microphone and speaker.
- Camera can be battery operated for true portable wireless operation.
- Temperature sensor.
- Remote Nightlight

Receiver Features

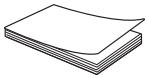
- 2.4" color LCD monitor/receiver with superior image quality.
- Rechargeable battery for true portability.
- Audio level indicator and alarm.
- Room temperature display.
- Micro SD card recording function.

What's Included

The system comes with the following components:

Wireless camera & Wireless receiver

Adapter (2EA)



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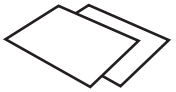

Warranty Card & Quick Guide

Screws (2EA) & Plastic anchor (2EA)

Wire Clips (6EA)

Check your package to confirm that you have received the complete system, including all components shown above.

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Getting to know your Monitoring system

Wireless Receiver

After opening the box, fully charge the monitor before use. After initial charge, recharge as needed.

Front & Back Controls

Receiver Antenna
Receives and sends signals from or to the camera.

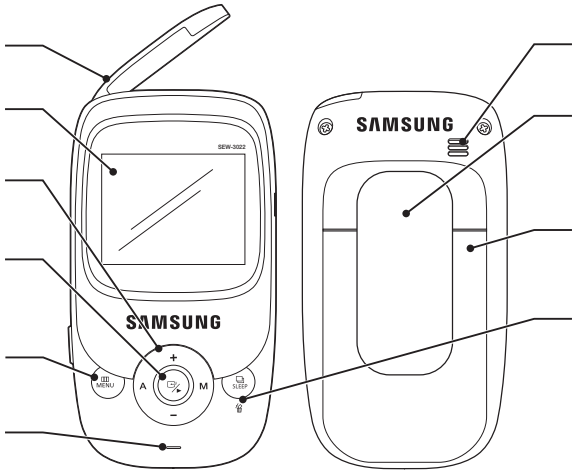
2.4" LCD Screen
Displays video from the camera.

Navigation Controls/ Button
Use the controls to move and select while in Viewing Mode and Menu Mode.

Play
Press to go to "File List" if Micro SD card is inserted.

MENU Button
Press to access the receiver menu.
Press the button again to exit.

Microphone
Transmits audio to the camera when Talk Button is pressed down and held like a walkie talkie.



Speaker
Produces the sound transmitted from the camera(s).

Belt Clip
When you carry the receiver, use the belt hanger to hold the receiver onto your belt.

Kick stand
Use to hold the receiver onto a table.

SLEEP / Button
Used to activate the screen saver mode.
Press the [**A/M**] or [**SLEEP**] button again to exit the screen saver mode.
If Power Saving mode is deactivated by a sound trigger, the device will go back to black screen approximately 8 seconds after the last trigger.
This button is also used to delete the selected data on the Micro SD card while the monitor is in search mode.

✧ Navigation Controls / Button

Viewing Mode: The following controls are used while watching live video from the camera:

- Press the [**+**] or [**–**] keys to increase or decrease the volume.
- Press the [**A**] key to view cameras in automatic switching mode.
- Press the [**M**] key to manually switch between cameras.

Menu Mode: Use the [**+/–/A/M**] key arrows to navigate in Menu Mode.
Press the [ ] button to confirm the menu selection.

■ You must have more than one camera configured on the system when using the functions that requires more than one camera.

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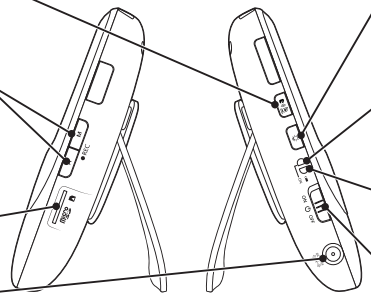
Side Controls



Talk Button
Press down and hold the button to talk back to the camera currently being displayed on the LCD screen.

A/M record
Press to auto record or manual record during monitoring.
Only available when the Micro SD card is inserted. (Not included)
REC [**A**] : Start recording when an alarm is detected.
REC [**M**] : Start recording when the button is pressed.

Micro SD Card Compartment
Insert Micro SD card for video recording capavility. (Not included)

DC 5V Power Input
Connect the included AC power adapter to power and/or charge the receiver battery (when the receiver is not placed in the optional Charge cradle).

Night Light Button
Press to remotely turn on/off the night light on the camera (for the camera currently being displayed on the LCD screen).
When the night light is on, an indication icon will be displayed on the LCD screen.

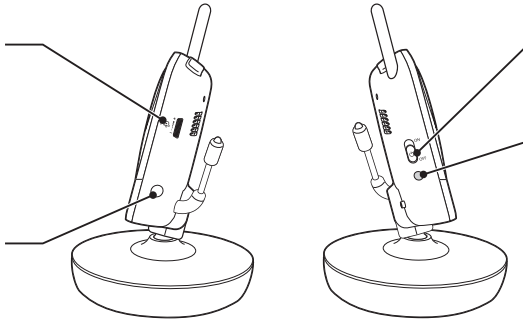
Receiver ON and low battery indication
When the Unit is turned on the LED is solid green.
If the LED blinks then the battery charge is low. Please connect to the AC power adapter to charge.

Charging Indication LED
A red LED shows battery is charging.
A Green LED shows battery is fully charged.

Power Slide Switch
Slide the switch to ON or OFF position to switch on/off the receiver.

Wireless Camera

Side Controls



Sound Alarm Trigger
Adjust the sensitivity knob to set the sound alarm sensitivity.
The receiver will beep to alert you when the sound is above a preset sound level.
Adjust to increase or decrease the level of sensitivity.

Night vision sensor
Detects light levels where the camera is placed.

Camera ON/OFF Switch
Turns the camera ON or OFF.

Camera on and low battery indication
Turn on the camera, the LED light will blink green once;
Low battery, the LED will blink repeatedly.
When the camera is turned on, the LED light would appear green. After 2 seconds, it goes out.

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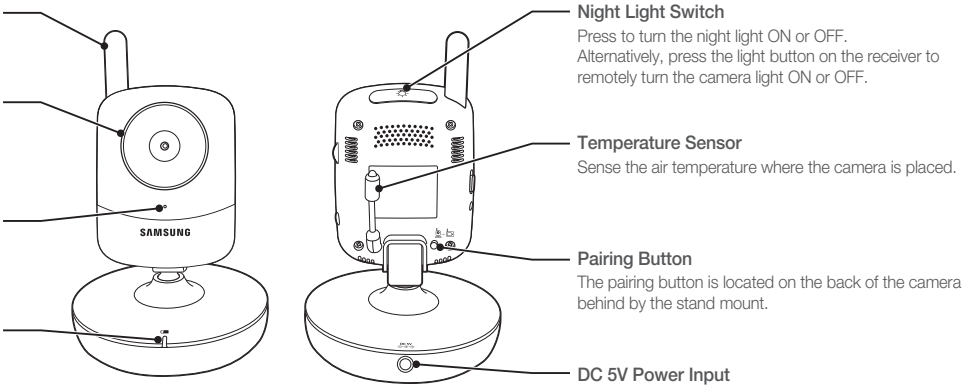
Front & Back Controls


Camera Antenna
Sends & receives signals to or from the receiver.
Lens/IR LED Cover
Infrared LED's provide viewing in no/low light conditions.
Microphone
Receives sounds for the area near the camera, and transmits sound from the camera to the receiver.
Charging Indication LED
LED is off when there is no rechargeable battery inside the camera base; the LED is red when the rechargeable battery pack is charging; the LED turns off when the rechargeable battery is fully charged.
SAMSUNG
Night Light Switch
Press to turn the night light ON or OFF.
Alternatively, press the light button on the receiver to remotely turn the camera light ON or OFF.
Temperature Sensor
Sense the air temperature where the camera is placed.
Pairing Button
The pairing button is located on the back of the camera behind by the stand mount.
DC 5V Power Input
Connect the AC power adapter to the camera.

- The camera can also be powered using 3 AA batteries (not included) installed in the base. If the camera is plugged in with the AC adapter, the batteries will not be used. The batteries are intended for short term, portable camera use.
- Remotely control Night Light ON or OFF is available only when the camera is paired to the receiver.
- The IR indicator will be activated in a low contrast scene and cause an increase of the temperature, which may affect the temperature sensor.

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To Use The Battery Mode

You can use the battery to power the camera if it's distant from the power source or if you want to carry the camera.

- This camera has built-in IR LED's, which provides the camera with the ability to view images in no/low light conditions. It is important to use the provided power adapter (and not the batteries) when using the camera for prolonged periods in low light conditions, as the built-in IR LED's will deplete the battery more quickly than regular daytime use.

1. Remove the battery cover from the base of the camera.
2. Insert 3 AA batteries (not included) into the Battery Pack. Make sure to correctly line up the Positive (+) and negative (–) terminals of the batteries.
3. Replace the battery pack cover.
   When the battery level is low and requires recharging, the LED light will blink intermittently.

When using the system with only battery power and the charge is low, then the picture and or sound may affected.

If this occurs then please connect the AC power adapter and/or replace with new batteries.

If you want to use the product for a longer time than using the default AA battery without the AC adapter, purchase the optional charging battery (SEA-B100).

If you are using the optional rechargeable battery then plug in the AC power adapter to recharge

BATTERY WARNING

When using the product in portable mode, check batteries regularly.

DO NOT use the monitor in portable mode when batteries are low.

- DISPOSE OF OR RECYCLE BATTERIES PROPERLY IN ACCORDANCE WITH APPLICABLE LAWS, which may vary by location.
- Insert batteries with the correct polarity.
- Do not mix new and used batteries.
- Remove exhausted batteries from the product.
- Keep all batteries away from children.
- THERE IS A RISK OF EXPLOSION IF INCORRECT BATTERIES ARE USED.
- Do not disassemble or modify the battery pack.
- Do not use batteries if there is any evidence of leakage or deformity.

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INSTALLATION

How to Install

Caution if you use the system to watch a young child, do not place the camera where the child can reach.

Wireless Receiver

1. Place the receiver in a place that will have clear reception with your camera(s).
2. Pull out the stand.

▪ Do not pull up the stand lever with an excessive force. Otherwise, it may be broken.

Wireless Camera

Before you install the camera, carefully plan where and how it will be positioned, and where you will route the cable that connects the camera to the power adapter. Before starting permanent installation, verify its performance by observing the image on the receiver when camera is positioned in the same location/position where it will be permanently installed and the receiver is placed in the location where it will be used most of the time.

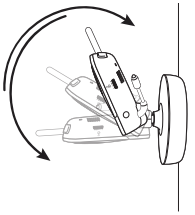
Installation Warnings

Aim the camera(s) to best optimize the viewing area: Select a location for the camera that provides a clear view of the area you want to monitor, which is free from dust, and is not in line-of-sight to a strong light source or direct sunlight.

Avoid installing the camera where there are thick walls or obstructions between the camera and the receiver.

STRANGULATION HAZARD - Keep cord out of child's reach. NEVER place camera or cords within 3 feet of crib or playpen. Use enclosed wire clips to help secure cord away from child's reach. Never use extension cords with AC Adapters. Only use the AC Adaptors provided.

1. **Carefully unpack the camera.**
   If you are installing cameras that did not come with the system, please see the pairing camera section of this manual for details on installation.
2. **Mount the camera to the wall.**
   Mark the position of the screw holes on the wall, and drill holes and insert 2 screws, then firmly attach the camera to the wall by placing the stand over the installed screws and pushing the base downwards.



▪ The camera can also be placed on a flat surface, such as a table or shelf, and no mounting hardware is required.

3. **Adjust the viewing angle of the camera**

▪ You can install additional cameras (maximum of 4 cameras).
When adding cameras that were not included in the original box, you will need to pair up the cameras with the receiver.
For paring to add a camera, refer to "**Pairing**". (Page 12)

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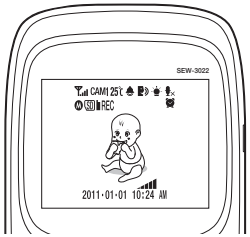
Viewing Mode Display

Wireless Receiver



Signal Indicator
The signal indicator shows the strength of the signal being received from the camera. The number of bars in the signal indicator shows the strength of the signal – One or no bars indicate the signal is poor, and 4 bars indicate a strong signal.

CAM1 **Camera Number**
Indicates the number of camera that is displayed on the current screen. Press the [**M**] key on the receiver to switch between available cameras.

- To automatically switch between channels, press the [**A**] key (AUTO).
- For paring to add a camera, refer to "**Pairing**". (Page 12)

25℃ **Temperature**
Shows the ambient temperature where the wireless camera is installed.

Trigger Alert
Indicates the type of alert when audio is detected on the camera.

Talk
Press and hold [ ] on the monitor to talk back to the camera currently being displayed on the LCD screen. Indicates that unit is in talking mode.

Night light
Press [ ] on the wireless receiver to remotely turn on/off the nightlight on the wireless camera currently being displayed. An indicator light will be visible if on.

Auto Mute
If you set Auto Mute to <**YES**>, the applicable message appears on the screen.

Micro SD card status
Indicates when a Micro SD card is inserted.
It indicates that micro SD card get full capacity when the icon is red,and card has some spaces when icon is white.
It displays the recording type if you press REC [**A**] or REC [**M**] button.

File List
Indicates if recording file exists.
To go to file list press [ ] button.

M REC **A/M record**
Press to auto record or manual record during monitoring.
Only available when the Micro SD card is inserted.
REC [**A**] : Start recording when an alarm is detected.
REC [**M**] : Start recording when the button is pressed.

Volume adjustment
The receiver volume can be adjusted by using the [**+**], [**–**] keys when viewing a camera.
Press the [**–**] key to decrease the volume, and press the [**+**] key to increase the volume. When the volume bar is disappear, the volume will be muted and no sound will be emitted by the device.
The volume adjustment icon will be displayed during volume changes, and will disappear after 5 seconds of inactivity.

Alarm
Indicates if the alarm set to <**ON**>.

Time
Displays the time that is set in the current receiver.

No Signal Warnings

The "**OUT OF RANGE**" message means the receiver cannot access the camera. Please reposition the camera, or check the camera power.

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MENU OPERATION

Menu Operation

How to use the buttons to setup

1. Press [**MENU**] button to enter the menu setting or exit the menu setting.
2. Move to other menu by press [**A**] or [**M**] key.
3. Press the [⏎] button for option selection mode.
4. Adjust option level by [**+**] or [**–**] key.
5. Press the [⏎] button to complete.

Icons used in setup

Brightness
Adjusts the brightness of the image.

Power Saving
Enables receiver power save mode (when no activity on the camera is detected).
The Power Saving Menu is used to turn off the screen at a predetermined time, to conserve battery power.
After selected time, the monitor will go to a select screen saver or black screen if blank is selected as the screen saver.
Power Saving mode will be deactivated by pushing [**A**], [**M**] or [**SLEEP**] on the front panel of monitor or by higher sound detected by cameras.
If Power Saving mode is deactivated by pushing [**A**], [**M**] and [**SLEEP**], the monitor will go back to black screen after the time you set if there is no sound trigger during that time.

Screen Saver
After selected time, the monitor will go to a select screen saver or black screen if blank is selected as the screen saver.

Auto Mute
Automatically cuts off the audio when there is only slight environmental noise on the camera side.
Choose <**YES**> to enable this function.
If auto mute is enabled, the receiver will automatically mute if there is no audio detected from the camera. If the audio is detected on the camera, the receiver will automatically unmute.

Alert Setting
Select the type of alert when audio is detected on the camera.
You may select the Vibration or Beep as the trigger alert manner while something has been detected by camera side.
When choose vibration, all the buttons automatically in mute function.

Temperature Unit
Select the temperature unit ˚C or ˚F for you option to show in the screen.

Temperature Alert
Sets the temperature alert range.
When temperature on camera side is out of the set range, the monitor will be alerted.

Alarm Setting
Sets the time value with HH, MM and select the ON or OFF to decide alarm or not.

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Date Setting
Sets the year, month, date value to show in the monitor screen.

Date Format
Sets the date format to show in the monitor screen.

Time Setiing
Sets the time value with hour, minute to show in the monitor screen.

Pairing
You can register a wireless camera with the receiver using the registration menu where you can view the video of the selected wireless camera.
Pairing The system comes with a camera that has already been paired with the receiver unit.
The pairing function assigns the camera to a channel on the wireless receiver.
Up to 4 Cameras (each additional camera sold separately) may be paired, which each optional camera on its own channel.
If additional cameras are paired, they must each be configured separately.

■ It is highly recommended to pair the cameras to the receiver before permanently mounting the cameras. See the pairing section on this manual for details.

Reset
Choose <**YES**> to reset the receiver to factory defaults.
All menu settings will be reset.

■ Camera pairing settings will NOT be affected by a reset. The camera will remain paired with the receiver.

Memory-format
Delete recorded data.
Choose <**YES**> to delete all data.

Pairing Camera

1. Power on and turn the switch to ON.
   The power LED for the camera and receiver should be ON.
2. Press the [**MENU**] button on the receiver.
3. Select Pairing menu by pressing [**A**] or [**M**] key.
   Press the [ ] button to go into the Pairing menu.
4. Select a channel by pressing the [**+**] or [**–**] key.
   A message will be displayed on the receiver screen.
   The receiver will count down from 30~0 sec you must press the pairing button on the camera during this time to successfully pair the camera.
5. Press the [ ] button on the back of the camera.
   If not, the receiver will return to the view screen, and no pairing will take place.
   Once the camera has been paired, it will be immediately viewable on the receiver monitor.

Video Playback

Search and play if recording data exists on the inserted Micro SD card.

1. Press [ ] button during monitoring.
   File List shows.
2. Choose a file folder desired to play by using [**+**], [**–**] button.
3. Press [ ] button to play the selected video.
   + : Stops playback temporarily
   – : Stops playback
   A : Rewind (X1, X2, X4, X8)
   M : Fast Forward (X2, X4, X8)
4. Press [**MENU**] button to go back to search mode during playback.
   You will see a confirm message if you press [ ].

■ To go back to monitoring mode press [**MENU**] button.

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Selecting a Memory Card For Video Recording

Selecting a Memory Card For Video Recording
Your Samsung BabyVIEW™ baby monitor supports MicroSD memory cards. You may experience compatibility issues depending on the model and maker of the memory card.

For your Samsung BabyVIEW™ baby monitor, we recommend you use a MicroSD memory card from the following manufacturers: Sandisk® and Kingston®. However, these memory card brands are only recommendations, and other Micro SD card brands will function with your baby monitor.

Micro SD Card Capacity	Estimated Recording Time	
	Kingston®	Sandisk®
	QVGA	QVGA
512MB	1:00	1:05
1GB	1:55	2:05
2GB	3:55	4:20
4GB	8:15	8:55
8GB	16:30	17:50
16GB	33:00	36:00
32GB	67:00	73:00

- Recording times are shown in hours and minutes.
- Recording times are estimated based on product usage with Kingston® and Sandisk® branded Micro SD memory cards. Usage of alternative brands and/or non-branded media may result in different recording time. In addition, Recording time may vary depending on the environment of operation.

Specifications

Item	Details
Camera	
Transmit Frequency Range	2.400GHz~2.4835GHz
Data Rate	2.0 Mbps
Transmitting Power	15dBm (MAX)
Modulation Type	GSFK
Transmitting Distance	350ft (about 100m) / (Line of Sight)
Image Sensor Type	1/5" Color CMOS Image Sensor
Effective Pixels	H: 320 V: 240
Image Processing	Motion JPEG
Image Resolution / Frame Rate	20 fps
White Balance	Auto
Lens	4.9mm / F2.8
Viewing Angle (Diagonal)	40°
Minimum Illumination	2 LUX (without IR LED illumination)
IR LED / Night Vision Range	940nm / 3m
Power Requirement	5V DC ±5%
Power Consumption	480mA MAX (IR LED) / 320mA MAX (without IR LED)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Operating Humidity	0%~80% RH
Weight	147g
Size(WXHXD)	94 x 148 x 94mm

Item	Details
Receiver	
Receiving Frequency Range	2.400GHz~2.4835GHz
Monitor	2.4" Color LCD
Data Rate	2.0 Mbps
Receiving Sensitivity	-81dBm
Demodulation Type	GSFK
Resolution (Pixel)	320 x 240 (RGB)
Viewing Angle	H: 90° V: 60°
Resolution	QVGA Optional
Power Requirement	5V DC ±5%
Power Consumption	300mA Max without charging
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Operating Humidity	0%~85% RH
Weight	157g
Size(WXHXD)	63 x 119 x 25mm
No. of cameras supported	Max. 4

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Troubleshooting

Problem	Solution
The monitor beeps or vibrates for no apparent reason	The unit may be beeping or vibrating because the sound sensitivity on the camera is too high. 1. Try lowering the sound alarm trigger on the camera (shown on page 6) to an appropriate sensitivity level.
No picture from a camera	1. Check all connections to the camera. Make sure the adapter is plugged in. 2. Make sure that the cameras and receiver are both ON. 3. Make sure that the camera is in range of the receiver. 4. If using the battery adapter, try replacing the batteries. 5. Make sure the camera and monitor are paired.
The picture is dropping	1. Move the camera closer to the receiver. 2. Try repositioning the camera, receiver or both to improve the reception. 3. Adjust the monitor antenna to vertical position.
The picture is or has become choppy	The picture may become choppy when experiencing a lower frame rate (i.e. 10 frames per second vs. a higher 20 frames per second). 1. Try moving the camera closer to the receiver. 2. Remove obstructions between the receiver and camera. 3. Adjust the monitor antenna to vertical position.

■ Low batteries will cause the supply current to become unstable and will affect the quality of the video/audio. Please charge the battery fully or replace the batteries for use for superior video.

Samsung Techwin cares for the environment at all product manufacturing stages, and is taking measures to provide customers with more environmentally friendly products.
The Eco mark represents Samsung Techwin's devotion to creating environmentally friendly products, and indicates that the product satisfies the EU RoHS Directive.

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

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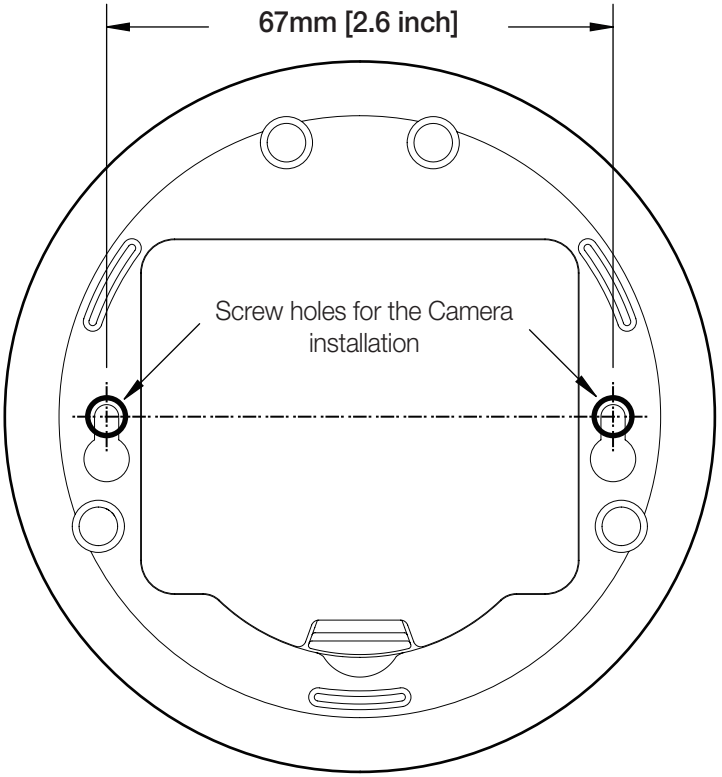
TEMPLATE

This template is used to install the camera on the wall.



CAMERA FRONT

SALES NETWORK

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